LETTER

Revised British Society of Gastroenterology recommendation on the diagnosis and management of Barrett’s oesophagus with low-grade dysplasia

The most recent guidelines for the management of Barrett’s oesophagus published in 2014 recommended endoscopic surveillance for patient with histological evidence of low-grade dysplasia (LGD) on random biopsies. In the last 2 years, new evidence on the natural history of LGD in Barrett’s oesophagus and on the safety and efficacy of endoscopic treatment in this subgroup of patients has been published.

Duits et al have conducted a retrospective analysis of 293 patients with LGD diagnosed in community hospitals. Following consensus review, the original LGD diagnosis was confirmed in 2.7% of cases, while the remaining of the cases were downgraded to non-dysplastic Barrett’s oesophagus or indefinite for dysplasia (IND). Patients with a LGD consensus diagnosis had a progression rate to high-grade dysplasia (HGD) or cancer of 9.1%/year over a median follow-up of 39 months. By contrast, patients whose diagnosis was down-staged to either non-dysplastic Barrett’s oesophagus or IND had a conversion rate of 0.6% and 0.9%/year, respectively (evidence grade: low). This study reiterates the difficulty in making a pathological diagnosis of LGD, but also shows that confirmation by an expert pathologist from a different institution associates with a substantially higher risk of progression. In keeping with this study, a recent meta-analysis found that studies on cohorts with a low LGD/non-dysplastic Barrett’s oesophagus ratios (<0.15), indicative of a more stringent and robust dysplasia diagnosis, reported a significantly higher annual incidence of cancer (0.76%; 95% CI 0.45% to 1.07%) compared with studies with a ratio >0.15, where many LGD cases were likely overdiagnosed (0.32%; 95% CI 0.07% to 0.58%) (evidence grade: low).

With regard to endoscopic treatment, a recent multicentre randomized controlled trial compared the outcome of 68 patients with LGD treated with radiofrequency ablation (RFA) with an equal number of patients undergoing annual endoscopic surveillance. The main inclusion criterion was a diagnosis of LGD confirmed by a central pathologist with extensive experience in Barrett’s oesophagus. Over a 3-year follow-up period, 1% of patients in the treatment arm progressed to HGD or cancer, compared with 26.5% in the control arm (p<0.001) (evidence grade: high). Complete eradication of dysplasia and intestinal metaplasia by RFA was achieved in 98% and 90%, respectively. The most common complication was stricture, which occurred in 12% of patients, but this was successfully managed in all patients with endoscopic dilatation.

Tum taken together, the new published data suggest that a consensus diagnosis of LGD by independent pathologists correlates with a significant risk of progression to HGD/cancer and that RFA significantly reduces this risk. This strongly indicates that endoscopic ablation, preferably with RFA, is an appropriate treatment for Barrett’s oesophagus with LGD (figure 1). Due to the considerable diagnostic difficulties, LGD should be diagnosed and confirmed by an expert GI pathologist in at least two endoscopes. Treatment options should be discussed by an upper GI multidisciplinary team (MDT) to ensure pathology review and assess patient fitness and endoscopic therapy should be restricted to high volume centres as per main 2014 guidelines. As noted in the current guidelines, p53 immunohistochemistry can be a useful diagnostic adjunct.

Therefore, the new recommendation on the management of LGD in Barrett’s oesophagus is:

Patients with LGD should have a repeat endoscopy in 6 months’ time. If LGD is found in any of the follow-up oesophagogastroduodenoscopy and is confirmed by an expert GI pathologist in at least two
sets of biopsies, the patient should be offered endoscopic ablation therapy, preferably with RFA, after review by the specialist MDT. If ablation is not undertaken, 6-monthly surveillance is recommended (recommendation grade A for endoscopic therapy and C for surveillance). Agreement: A+ 56%, A 33%, U 0%, D 11%, D+ 0%.

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Contributors MdP has led on the Delphi process, written the manuscript and produced the figure. RCF has written the manuscript.

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